

**CHAPTER 4 LESSON 2 HOMEWORK**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Find the greatest common factor of the following sets of numbers.

a. 54 and 144

b. 8, 16, and 20

2. Find the least common multiple of the following sets of numbers.

a. 7 and 4

b. 8, 5, and 3

2. Solve each word problem using any method you like. Explain your reasoning behind your answer.

a. Ariel is making flower arrangements. He has 7 roses and 14 daisies. If Ariel wants to make all the arrangements identical and have no flowers left over, what is the greatest number of flower arrangements that he can make? What would each vase look like?

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b. Jackson Stationery sells cards in packs of 12 and envelopes in packs of 6. If Kina wants the same number of each, what is the minimum number of cards that she will have to buy?

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c. Kiara baked 30 oatmeal cookies and 48 chocolate chip cookies to package in plastic containers for her friends at school. She wants to divide the cookies into identical containers so that each container has the same number of each kind of cookie. If she wants to have the greatest number of containers, how many containers does she need? What would each container look like?

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d. At a display booth at an amusement park, every visitor gets a gift bag. Some of the bags have items in them as shown in the table below.

**Items in the Gift Bags**

Items	Bags
Hat	Every 2 <sup>nd</sup> visitor
T-shirt	Every 7 <sup>th</sup> visitor
Backpack	Every 10 <sup>th</sup> visitor

How often will a bag **contain all three items**?

- A. Every 14 bags
- B. Every 19 bags
- C. Every 70 bags
- D. Every 140 bags

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